## B.S. in BIOPHYSICAL CHEMISTRY

### Typical Schedule *(TENTATIVE - Expect changes, consult with your advisor)*

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
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| **Freshman Fall** | Chem 131<sup>ap</sup>, pph (Gen Chem I) [3]  
                    | Chem 135L<sup>pph</sup> (Special Gen Chem Lab I) [1]  
                    | Math 235<sup>pph</sup> (Calc I) [4]  
                    | GenEd Cluster 1 [3]  
                    | GenEd WRTC 103 &/or other GenEd [3-6] |
| **Freshman Spring** | Chem 132<sup>ap</sup>, pph (Gen Chem II) [3]  
                     | Chem 136L<sup>pph</sup> (Special Gen Chem Lab II) [2]  
                     | Math 236 (Calc II) [4]  
                     | Bio 140<sup>pph</sup> (Foundations I) [4]  
                     | GenEd Cluster 1 [3] |
| **Sophomore Fall** | Chem 241<sup>pph</sup> (Organic I) [3]  
                    | Chem 287L<sup>pph</sup> (Inor/Org lab I) [2]  
                    | Phys 240<sup>pph</sup> (University Phys I) [3]  
                    | Phys 140L<sup>pph</sup> (Phys lab I) [1]  
                    | GenEd &/or electives<sup>e,pph</sup> [6-8] |
| **Sophomore Spring** | Chem 242<sup>pph</sup> (Organic II) [3]  
                      | Chem 270 (Inorganic) [3]  
                      | Chem 288L (Inor/Org lab II) [2]  
                      | Bio 240 (Genetics) [4]  
                      | Phys 250<sup>pph</sup> (University Phys I) [3]  
                      | Phys 150L<sup>pph</sup> (Phys lab I) [1] |
| **Junior Fall**   | Bio 480 (Adv Molecular Bio) [4]  
                    | Chem 351 (Analytical) [4]  
                    | Chem 361<sup>pph</sup> (Biochem) [3]  
                    | Math 237 (Calc III) [4]  
                    | Electives<sup>e</sup> [0-3] |
| **Junior Spring** | Chem 331 (PChem I) [3]  
                    | Chem 336L (Appl Pchem Lab) [2]  
                    | Mat 238 (Linear Algebra with Diff Eq) [4]  
                    | GenEd &/or electives<sup>e</sup> [6-8] |
| **Senior Fall**   | Chem 363 (Biophys Chem w/Lit&amp;Sem) [3]  
                    | Chem 367L (Biochem Lab) [2]  
                    | Chem 432 (PChem II) [3]  
                    | Approved elective<sup>e</sup> [3-4]  
                    | GenEd &/or electives<sup>e</sup> [3-6] |
| **Senior Spring** | Chem 368L (Biophys Chem Lab) [2]  
                    | Approved elective<sup>e</sup> [3-4]  
                    | GenEd &/or electives<sup>e</sup> [10-12] |

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<sup>ap</sup> If AP Chem = 3-5, Chem 131/132 [6]

<sup>pph</sup> If Chem 131/132 is complete, consider Chem 270 [3]

<sup>e</sup> Suggestions: Research, BIO 150<sup>pph</sup> (Fndtns II) [4]

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**Approved elective courses include:** Research (390, 497-499), Chem Hazards (Chem 325 -F,even), Environmental Chem (353 –Sp,odd), Environmental Field Camp (Chem 354, Su), Geochem (Chem 355 -F), Biochem II (Chem 362, 366L -Sp), Materials (Chem 375 -F), Intermediate Organic (Chem 440-F,even), Polymers (Chem 445,445L -F,odd), Lasers (Chem 455 -V), Inorganic II (Chem 470 –F), Human Genetics (Bio 324 -F), Neurobiology (Bio 445 -V), Math. Models in Bio (Bio/Math 342-Sp), Biometrics (Bio/Math 454 -Sp), Prob & Stats (Math 318), Biophysics (Phys 326), Physics III (Phys 260), Modern Physics (Phys 270), Materials Characterization (Phys/Mats 381), etc. [See Undergrad Catalog]

**pph** Most pre-Professional health (pre-med, pre-pharm, etc) programs require: BIO 140-150, CHEM 131-132, CHEM 135L-136L, CHEM 241-242, CHEM 242L or 287L, MATH 220, MATH 235, PHYS 240-250, PHYS 140L-150L. Recommendations include CHEM 361 and additional Bio courses.

Pre-med: GenEd recommendations include PHIL 120 (C1), SOCI 110 (C4), PSYC 101 (C5).

Pre-Pharm: GenEd recommendations include PHIL 150 (C1), SCOM 122 (C1), ECON (C4), PSYC 101 or 160 (C5). [See Undergrad Catalog]